

AG!
AGI Glassplant



Sakura

The next generation of pilot reactors

The next generation of pilot reactors

AGI Glassplant Sakura Pilot Reactors are a range of premium reactor systems featuring the latest reactor technology, allowing you to scale up your process with ease.



Best-in-class glassware

Groundbreaking Cyclone and Ring Baffle vessel technologies.



Enhanced reactor performance

Uniform heating and superior vessel geometry.



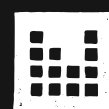
Easy to use

Innovative, user-friendly design.



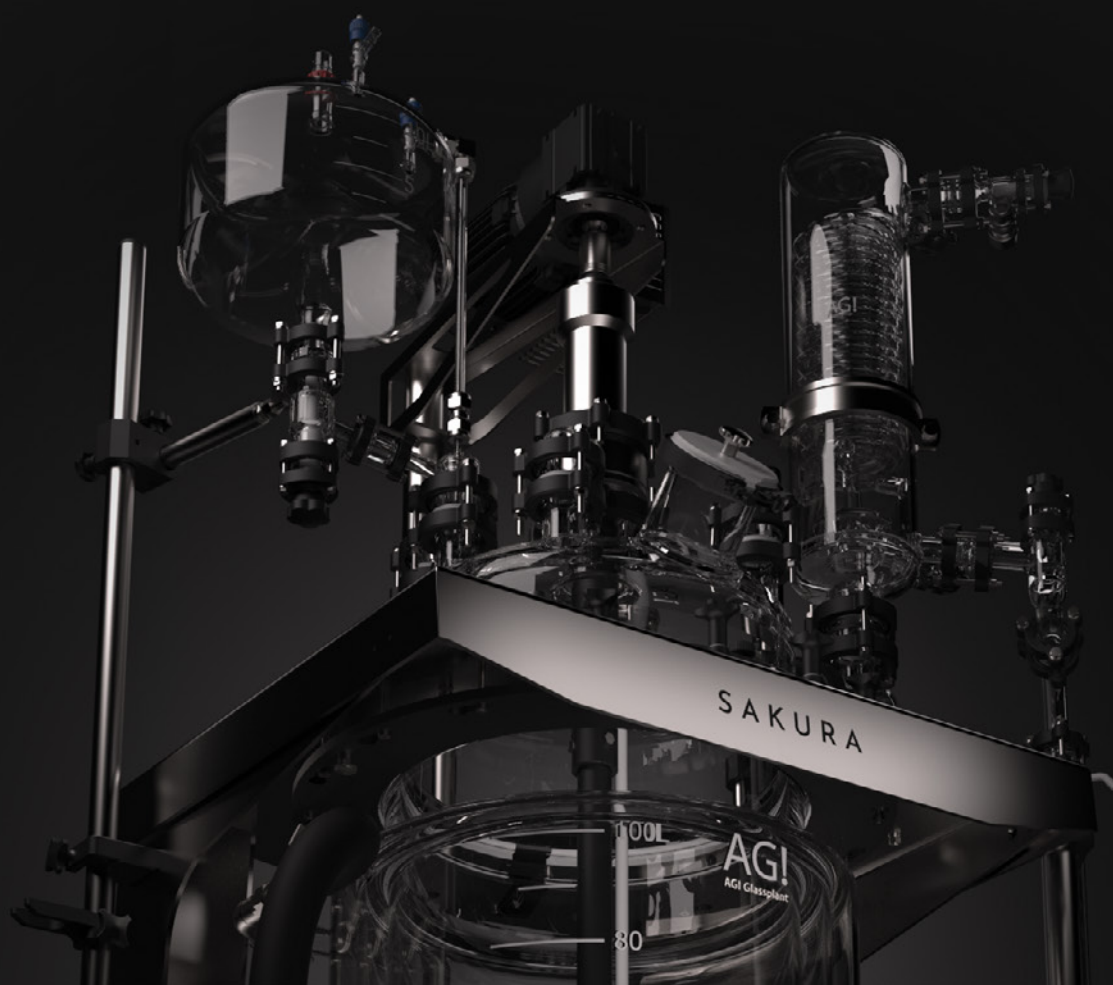
Saves lab time

The latest technology to improve productivity.



Configure your perfect system

Create the best system for your process.



Sakura



Sakura is a premium pilot reactor featuring vessels of up to 100 L, that gives you the highest level of performance in a robust, easy-to-use package that incorporates the latest in reactor technology.

50 and 100 L double or triple wall vessels

Cyclone Vessel Technology as standard

Ring Baffle Vessel Technology upgrade

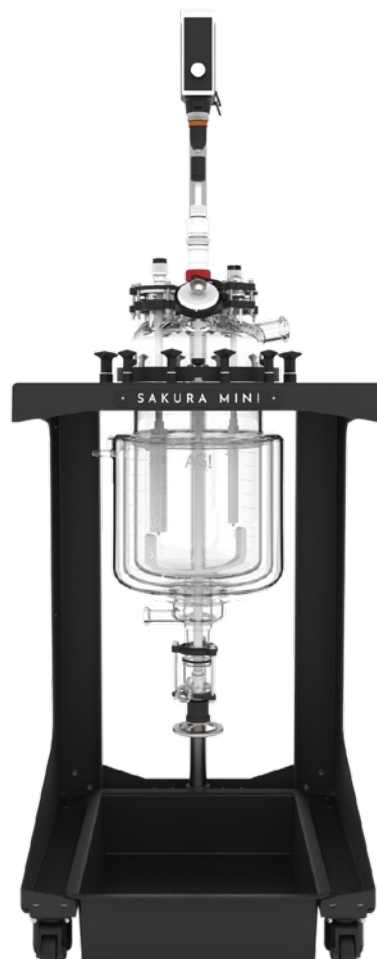
Superior vessel geometry

High performance stirring

Liftless stirrer coupling

Extended range of ancillary glassware

Sakura Mini



Sakura Mini gives you flexibility without compromise, with a range of interchangeable 10-30 L vessels featuring the latest reactor technology, all in a customizable small footprint package.

10 to 30 L double or triple wall vessels

Cyclone Vessel Technology as standard

Quick vessel switch-out

Small footprint system

High performance stirring

Liftless stirrer coupling

Extended range of ancillary glassware

User-friendly design

Save time and labor with Sakura and Sakura Mini's user-friendly design. Many tasks only require one user to complete, and modern design features make operating the reactors as simple as possible.



Liftless stirrer coupling

Liftless stirrer coupling eliminates the need to lift heavy stirrer motors above head height, for quicker and safer removal of the stirrer.

Easy vessel removal

Vessel removal now requires less time and labor. The vessel or lid can stay in place while the other is removed, and a purpose-built trolley can be supplied to assist removal.

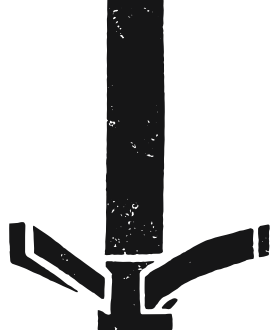
Removeable bottom outlet valve

Novel run-off design of the removeable bottom outlet valve helps to prevent the formation of deposits and allows thorough cleaning.

Torque-limited vessel clamps

Torque-limited vessel clamps include intuitive indicators to protect your glassware from overtightening.

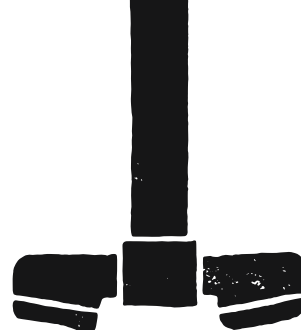
Left: Sakura; Right: Sakura Mini, both fitted with ancillary glassware



RETREAT
CURVE
IMPELLER



ANCHOR

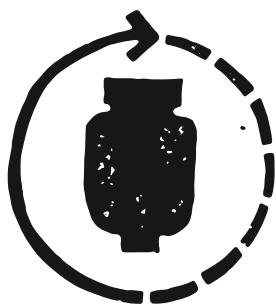


MOLEPAW

Optimized stirring

Sakura and Sakura Mini offer a choice of three different stirrer: anchor, retreat curve impeller and our proprietary Molepaw design – giving you plenty of options when considering the mass flow patterns of your reactions.

The innovative wing-shape design of the Molepaw is suitable for the most challenging reactor conditions. It improves mixing times compared to conventional three-wing impeller/paddle designs, and allows a minimum volume of as little as 3 % liquid.



Quick vessel switch-out

Sakura Mini features tool-free, quick vessel switch-out technology that lets you exchange vessels in under 30 minutes. The vessel or lid can remain in place when the other is removed, and a purpose-built trolley and oil-pipe holders make maneuvering and changing heavy vessels a single-user task.

Unlock automation

Sakura and Sakura Mini integrate seamlessly with the AGI Glassplant Pilot Reactor Controller. The Pilot Reactor Controller oversees every stage of your process, giving you precise control, automation and replicability to streamline workflows and free up valuable time.



Best-in-class glassware

Sakura and Sakura Mini double and triple wall vessels are engineered to the most exacting specifications, ensuring the highest level of thermal control for your process. Their superior vessel geometries and minimized oil jacket volume mean that you can rely on AGI Glassplant reactors to give you peak performance.

Enhanced vessel geometry

Sakura and Sakura Mini vessels feature small jacket sizes and enhanced vessel geometry that mimic glass-lined stainless steel industrial reactor vessels, making scaling your process as intuitive as possible.

SAKURA VESSELS



50 and 100 L double and triple wall vessels with Cyclone Vessel Technology and optional Ring Baffle Vessel Technology upgrades

SAKURA MINI VESSELS



10, 20, 30 L double and triple wall vessels with Cyclone Vessel Technology

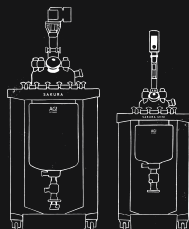


Ring Baffle Vessel Technology

Sakura's optional proprietary Ring Baffle Vessel Technology features circular baffles within the oil jacket that induce uniform flow of the heat transfer fluid, enhancing thermal exchange between the jacket and the process. Our wall thickness optimization method further improves energy exchange and mechanical stability in the vessel.

Cyclone Vessel Technology

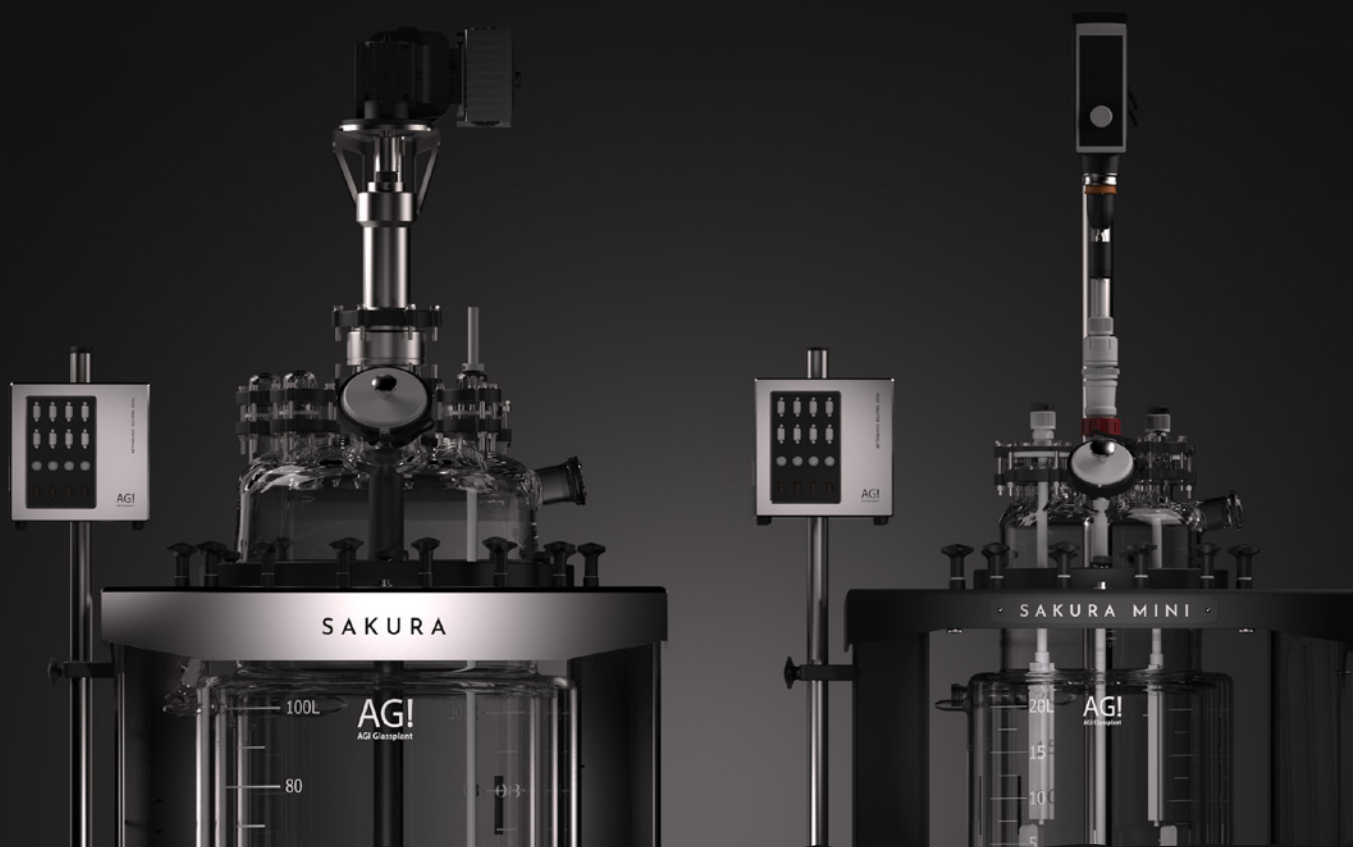
Both Sakura and Sakura Mini double and triple wall vessels feature AGI Glassplant's proprietary Cyclone Vessel Technology as standard. This novel vessel design induces cyclonic flow of heat transfer fluid, ensuring uniform heat distribution for improved process efficiency.



Find out more

Contact us now to find out how Sakura and Sakura Mini can help you scale up your process with ease.

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Sakura (left) and Sakura Mini (right) fitted with AGI Glassplant Pilot Reactor Controller

PART OF THE AGI GROUP

The AGI Group creates unrivalled precision scientific glassware, automation, and instrumentation products for lab, pilot, and manufacturing scale. Our decades of experience, passion, and dedication in perfecting the art of glass blowing, alongside our robust engineering capabilities, make us the trusted partner for scientific, pharmaceutical, and academic industries.

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